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## SAFETY DATA SHEET - LINQBOND™ LE-4422

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### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME** : LE-4422  
**SUPPLIER NAME** : Caplinq Europe BV

**Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the preparation: Epoxy resin adhesive**

**Uses advised against: No further relevant information available**

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**CHEMICAL NAME** : LINQBOND™ LE-4422 | Heat curable encapsulation adhesive for electronic components

### SECTION 2. HAZARDS IDENTIFICATION

#### PROPOSED CLASSIFICATION

Irritant

#### HAZARD IDENTIFICATION

Hazard Symbols:



**Signal Word: Warning.**

#### Hazard statement

**P302** Harmful if swallowed

**P315/320** Irritate to eyes and skin

#### Precautionary statement

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**P338** Removes contact lenses if present and easy to do. Continue rinsing.

**P351** Rinse cautiously with water for several minutes.

**P352** Wash with plenty of soap and water.

#### Potential Health Effects

**Eye Contact:** May cause mild eye irritation.

**Ingestion:** May be hazardous to the digestive system, cause vomiting and loss of appetite.



**Inhalation:** May cause respiratory tract irritation.

**Skin Contact:** May cause mild skin inflammation.

**Toxicity:** LD<sub>50</sub>(oral) >5000 mg/kg.

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### SECTION 3. INGREDIENT COMPOSITION

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No.	Components	CAS Reg. No.	Proportion (%)
1	Epoxy Resin	25068-38-6	30–60
2	Latent curing agent	461-58-5	1–10
3	Colorant	1333-86-4	0.1–9.9
4	Silica filler	7631-86-9	20–50
5	Epoxy diluent	68609-97-2	0.1–9.9
6	Additive	Confidential	0.1–9.9

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### SECTION 4. FIRST AID MEASURES

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**EYE CONTACT:**

- Immediately flush with plenty of water for at least 15 min.

**SKIN CONTACT:**

- Immediately flush with plenty of water for at least 15 min.

**INHALATION:**

- Move victim to fresh air.
- Administer oxygen if breathing is difficult.
- Get medical attention.

**INGESTION:**

- Do not administer anything orally if the patient is on the verge of losing consciousness, already unconscious, or experiencing convulsions.
- Do not induce vomiting.
- Get medical attention immediately.

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### SECTION 5. FIRE FIGHTING MEASURES

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**EXTINGUISHING MEDIA**

- Clean agent fire extinguisher, dry powder, carbon dioxide, or foam.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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**LEAK/SPILL**

- In case of a leakage, use sand, earth, or inert materials to contain and control it
- Report as per regulatory requirements.

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### SECTION 7. HANDLING AND STORAGE

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**HANDLING**

- Ensure the availability of suitable protective and ventilation equipment.
- Minimize skin and eye exposure, and prevent inhalation of vapors. Do not stay in contact for an extended period.

**STORAGE**

- Store in a cool (air-condition room temperature) & dry place away from excessive heat, sunlight, and humidity. Ensure that the storage and usage area is strictly designated as a non-smoking zone.



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## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### EXPOSURE LIMITS:

No.	Components	Standards*	Reference
1	Epoxy resin	N.E.	OSHA, ACGIH
2	Latent curing agent	N.E.	OSHA, ACGIH
3	Colorant	3.5 mg/m <sup>3</sup>	OSHA, ACGIH
4	Silica filler (Cristobalite fraction)	50 µg/m <sup>3</sup>	OSHA, ACGIH
5	Epoxy diluent	N.E.	OSHA, ACGIH

### NOTE:

\*: eight-hour time-weighted average exposure unless stated otherwise

N.E. – Not Established

OSHA – Occupational Safety and Health Act

ACGIH – American Conference of Government Industrial Hygienist

DOSH – Department of Occupational Safety and Health, Malaysia

### VENTILATION:

Use general or local exhaust ventilation to meet exposure limit requirements.

### PERSONAL PROTECTION:

- **Respiratory Protection:** Organic vapor canister or canister respiratory protector should be used when necessary.
- **Eye/Skin Protection:** Chemical safety splash goggles, eyewash equipment, and gloves are recommended.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Black viscous liquid

**ODOR:** Not Applicable

**PH:** Not Applicable

**INITIAL BOILING POINT/BOILING RANGES:** Not applicable

**FLASH POINT:** >140°C

**SPECIFIC GRAVITY:** 1.4–1.5

**VAPOUR PRESSURE (mm of Hg at 25°C):** Not applicable

**SOLUBILITY:** Not soluble in water

**VAPOUR DENSITY (Air = 1):** Not applicable

**EVAPORATION RATE (Butyl acetate = 1):** Not applicable

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## SECTION 10. STABILITY & REACTIVITY

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**STABILITY:** Stable under ordinary conditions of use and storage.

**CONDITIONS TO AVOID:** Not applicable.

**DECOMPOSITIONS PRODUCTS:** None.

**HAZARDOUS POLYMERIZATION:** No hazard at room temperature.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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**TOXICITY DATA:**

Estimated oral exposure limit LD<sub>50</sub>(oral) >5000 mg/kg.

**CARCINOGENICITY:**

No information found

**REPRODUCTIVE EFFECT:**

No information found

**CHRONIC EFFECTS:**

No information found

**TARGET ORGANS:**

No information found

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**SECTION 12. ECOLOGICAL INFORMATION**

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**MOBILITY:** No information found

**BIOACCUMULATION:** No information found

**BIODEGRADABILITY:** No information found

**AQUATIC TOXICITY:** No information found

**ENVIRONMENTAL TOXICITY:** No information found

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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Disposal of waste needs to be carried out at the city, state, or federally permitted disposal facility. Handle in accordance with applicable regulations and/or local authorities.

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**SECTION 14. TRANSPORT INFORMATION**

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**Land transport ADR/RID (Cross-border)**

**ADR, RID Class:** No information available

**Maritime transport IMDG**

**IMDG Class:** No information available

**Air transport ICAO-TI and IATA-DGR**

**ICAO/IATA Class:** No information available

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized safety officer. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

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**SECTION 15. REGULATORY INFORMATION**

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No information available

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**SECTION 16. OTHER INFORMATION**

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